

Amendments In the Claims

Applicants respectfully request to cancel Claims 1-115 and add the following new claims:

1. – 115. Cancelled.

116. (New) A method comprising:

generating a set of SQL statements to query a first table and a second table,
wherein

the generating uses a relationship between the first table and the second
table to construct the set of SQL statements, and

the set of SQL statements does not include a statement that joins the first
and second tables.

117. (New) The method of claim 116 wherein the relationship comprises:

a parent/child relationship between the first and second tables, wherein

one of the first and second tables is a parent table, and

if the first table is the parent table, the second table is a child table, and

if the second table is the parent table, the first table is the child table.

118. (New) The method of claim 117 further comprising:

querying the parent table using the set of SQL statements to produce a result set;
and

using the result set for constructing a second set of SQL statements to query the
child table, wherein

the second set of SQL statements does not include a second statement that
joins the second table to another table.

119. (New) The method of claim 118 further comprising:

querying the child table using the second set of SQL statements to produce a
second result set; and

joining the result set and the second result set to produce a third result set.

120. (New) The method of claim 119 further comprising:

returning the third result set as a result of the query of the first and second tables.

121. (New) The method of claim 118 wherein the second set of SQL statements comprises:
a query statement for selecting a record having a value of a foreign key field of the second table equal to a value of a target key field in the result set.
122. (New) The method of claim 116 further comprising:
querying the first table using the set of SQL statements to produce a result set; and
using the result set for constructing a second set of SQL statements to query the second table, wherein
the second set of SQL statements does not include a second statement that joins the second table to another table.
123. (New) The method of claim 122 further comprising:
querying the second table using the second set of SQL statements to produce a second result set; and
joining the result set and the second result set to produce a third result set.
124. (New) The method of claim 123 further comprising:
returning the third result set as a result of the query of the first and second tables.
125. (New) The method of claim 122 wherein the second set of SQL statements comprises:
a query statement for selecting a record having a value of a foreign key field of the second table equal to a value of a target key field in the result set.
126. (New) The method of claim 116 further comprising:
obtaining a search specification for the query of the first and second tables,
wherein
the set of SQL statements comprises a query statement to select a record from at least one of the first and second tables if the record satisfies the search specification.

127. (New) The method of claim 126 further comprising:
executing the set of SQL statements to produce a result set; and
returning the result set in response to the search specification.
128. (New) A system comprising:
generating means for generating a set of SQL statements to query a first table and
a second table, wherein
the generating means use a relationship between the first table and the
second table to construct the set of SQL statements, and
the set of SQL statements does not include a statement that joins the first
and second tables.
129. (New) The system of claim 128 wherein the relationship comprises:
a parent/child relationship between the first and second tables, wherein
one of the first and second tables is a parent table, and
if the first table is the parent table, the second table is a child table, and
if the second table is the parent table, the first table is the child table.
130. (New) The system of claim 129 further comprising:
querying means for querying the parent table using the set of SQL statements to
produce a result set; and
using means for using the result set for constructing a second set of SQL
statements to query the child table, wherein
the second set of SQL statements does not include a second statement that
joins the second table to another table.
131. (New) The system of claim 130 further comprising:
second querying means for querying the child table using the second set of SQL
statements to produce a second result set; and
joining means for joining the result set and the second result set to produce a third
result set.
132. (New) The system of claim 131 further comprising:
returning means for returning the third result set as a result of the query of the first
and second tables.

133. (New) The system of claim 130 wherein the second set of SQL statements comprises:
- a query statement for selecting a record having a value of a foreign key field of the second table equal to a value of a target key field in the result set.
134. (New) The system of claim 128 further comprising:
- querying means for querying the first table using the set of SQL statements to produce a result set; and
 - using means for using the result set for constructing a second set of SQL statements to query the second table, wherein the second set of SQL statements does not include a second statement that joins the second table to another table.
135. (New) The system of claim 128 further comprising:
- obtaining means for obtaining a search specification for the query of the first and second tables, wherein the set of SQL statements comprises a query statement to select a record from at least one of the first and second tables if the record satisfies the search specification.
136. (New) The system of claim 135 further comprising:
- executing means for executing the set of SQL statements to produce a result set; and
 - returning means for returning the result set in response to the search specification.
137. (New) A computer-readable medium comprising:
- generating instructions to generate a set of SQL statements to query a first table and a second table, wherein the generating instructions are configured to use a relationship between the first table and the second table, and the set of SQL statements does not include a statement that joins the first and second tables.

138. (New) The computer-readable medium of claim 137 wherein the relationship comprises:

a parent/child relationship between the first and second tables, wherein

one of the first and second tables is a parent table, and

if the first table is the parent table, the second table is a child table, and

if the second table is the parent table, the first table is the child table.

139. (New) The computer-readable medium of claim 138 further comprising: querying instructions configured to query the parent table using the set of SQL

statements to produce a result set; and

using instructions configured to use the result set for constructing a second set of

SQL statements to query the child table, wherein

the second set of SQL statements does not include a second statement that joins the second table to another table.

140. (New) The computer-readable medium of claim 139 further comprising:

second querying instructions configured to query the child table using the second

set of SQL statements to produce a second result set; and

joining instructions configured to join the result set and the second result set to produce a third result set.

141. (New) The computer-readable medium of claim 140 further comprising:

returning instructions configured to return the third result set as a result of the

query of the first and second tables.

142. (New) The computer-readable medium of claim 139 wherein

the second set of SQL statements comprises:

a query statement for selecting a record having a value of a foreign key

field of the second table equal to a value of a target key field in the result set.

143. (New) The computer-readable medium of claim 137 further comprising:
querying instructions configured to query the first table using the set of SQL
statements to produce a result set; and
using instructions configured to use the result set to construct a second set of SQL
statements to query the second table, wherein
the second set of SQL statements does not include a second statement that
joins the second table to another table.

144. (New) The computer-readable medium of claim 137 further comprising:
obtaining instructions configured to obtain a search specification for the query of
the first and second tables, wherein
the set of SQL statements comprises a query statement to select a record
from at least one of the first and second tables if the record satisfies
the search specification.

145. (New) The computer-readable medium of claim 144 further comprising:
executing instructions configured to execute the set of SQL statements to produce
a result set; and
returning instructions configured to return the result set in response to the search
specification.

146. (New) A computer system comprising:
a processor to execute instructions; and
a memory to store the instructions, wherein
the memory is coupled to the processor, and
the instructions comprise:
generating instructions configured to generate a set of SQL
statements to query a first table and a second table, wherein
the generating instructions use a relationship between a first
table and a second table to construct the set of SQL
statements, and
the set of SQL statements does not include a statement that
joins the first and second tables.

147. (New) The computer system of claim 146 wherein the relationship comprises:
a parent/child relationship between the first and second tables, wherein
one of the first and second tables is a parent table, and
if the first table is the parent table, the second table is a child table, and
if the second table is the parent table, the first table is the child table.
148. (New) The computer system of claim 147 wherein the instructions further comprise:
querying instructions configured to query the parent table using the set of SQL
statements to produce a result set; and
using instructions configured to use the result set for constructing a second set of
SQL statements to query the child table, wherein
the second set of SQL statements does not include a second statement that
joins the second table to another table.
149. (New) The computer system of claim 148 wherein the instructions further comprise:
second querying instructions configured to query the child table using the
second set of SQL statements to produce a second result set; and
joining instructions configured to join the result set and the second result
set to produce a third result set.
150. (New) The computer system of claim 149 wherein the instructions further comprise:
returning instructions configured to return the third result set as a result of
the query of the first and second tables.
151. (New) The computer system of claim 148 wherein
the second set of SQL statements comprises:
a query statement for selecting a record having a value of a foreign key
field of the second table equal to a value of a target key field in the
result set.

152. (New) The computer system of claim 146 wherein the instructions further comprise:

querying instructions configured to query the first table using the set of SQL statements to produce a result set; and
using instructions configured to use the result set to construct a second set of SQL statements to query the second table, wherein
the second set of SQL statements does not include a second statement that joins the second table to another table.

153. (New) The computer system of claim 146 wherein the instructions further comprise:

obtaining instructions configured to obtain a search specification for the query of the first and second tables, wherein
the set of SQL statements comprises a query statement to select a record from at least one of the first and second tables if the record satisfies the search specification.

154. (New) The computer system of claim 154 wherein the instructions further comprise:

executing instructions configured to execute the set of SQL statements to produce a result set; and
returning instructions configured to return the result set in response to the search specification.

155. (New) A system comprising:

a generating module configured to generate a set of SQL statements to query a first table and a second table, wherein
the generating module uses a relationship between a first table and a second table, and
the set of SQL statements does not include a statement that joins the first and second tables.

156. (New) The system of claim 155 wherein the relationship comprises:
a parent/child relationship between the first and second tables, wherein
 one of the first and second tables is a parent table, and
 if the first table is the parent table, the second table is a child table, and
 if the second table is the parent table, the first table is the child table.
157. (New) The system of claim 156 further comprising:
a querying module configured to query the parent table using the set of SQL
 statements to produce a result set; and
a using module configured to use the result set for constructing a second set of
 SQL statements to query the child table , wherein
 the second set of SQL statements does not include a second statement that
 joins the second table to another table.
158. (New) The system of claim 157 further comprising:
a second querying module configured to query the child table using the second set
 of SQL statements to produce a second result set; and
a joining module configured to join the result set and the second result set to
 produce a third result set.
159. (New) The system of claim 158 further comprising:
a returning module configured to return the third result set as a result of the query
 of the first and second tables.
160. (New) The system of claim 157 wherein
the second set of SQL statements comprises:
 a query statement for selecting a record having a value of a foreign key
 field of the second table equal to a value of a target key field in the
 result set.

161. (New) The system of claim 155 further comprising:
a querying module configured to query the first table using the set of SQL statements to produce a result set; and
a using module configured to use the result set to construct a second set of SQL statements to query the second table, wherein
the second set of SQL statements does not include a second statement that joins the second table to another table.
162. (New) The system of claim 155 further comprising:
an obtaining module configured to obtain a search specification for the query of the first and second tables, wherein
the set of SQL statements comprises a query statement to select a record from at least one of the first and second tables if the record satisfies the search specification.
163. (New) The system of claim 162 further comprising:
an executing module configured to execute the set of SQL statements to produce a result set; and
a returning module configured to return the result set in response to the search specification.